

Model
HMK12AA

Sales code:
CDO00163

Compressor Data

Refrigerant(s)	R600a
Refr. charge - tech. limit	150g / 5.29oz
Weight	9.00 kg / 19.84lbs
Displacement	11.20 cm3 / 0.68cu.in
Compressors on pallet	100



General – Configurations With HMK12AA

-	Conf. 1
Motor configuration	RSIR
Power supply (nominal)	220-240 V/50 Hz
Number of phases	1
Voltage range	187-264 V
Approvals	VDE
Starting torque	LST
Refrigerant	R600a
Application	LBP

Application Notes

- Various options of housing are possible (dip-tray fixture) - please contact SECOP-Sales.
- Various options of connectors are possible - please contact SECOP-Sales.
- Provision for PE Grounding is located at the PE Stamp on the compressor

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Compressor Design

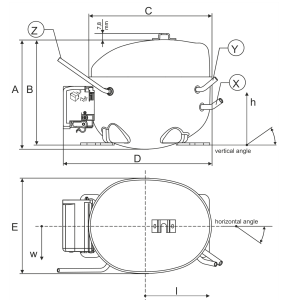
Oil type	Mineral	Winding resistance main	15.7 Ohm
Oil viscosity	5cSt	Winding resistance aux	12.6 Ohm
Oil quantity	165 / 5.58fl.oz	Max. winding temp.	130 °C
Free gas volume comp.	1,600 cm ³ / 54.10fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	external		

Compressor Dimensions

Housing

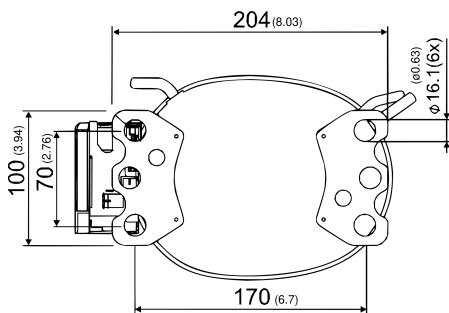
A Height	174mm / 6.85in
B Height	167mm / 6.57in
C Length shell	194mm / 7.64in
D Length w. cover	238mm / 9.37in
E Width	151mm / 5.94in

[Find 3D Model here](#)



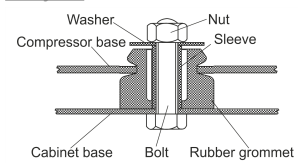
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 6.1–6.2 / 0.24–0.24in	øi 5.1–5.2 / 0.20–0.20in	øi 5.92–6.08 / 0.23–0.24in
Material	CU	CU	CU
Horizontal angle ±2°	45°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	120/71.5/62 / 4.72/2.81/2.44in	112/105.5/62 / 4.41/4.15/2.44in	-140/136/70 / -5.51/5.35/2.76in
Straight tube l. [mm]	13.5 / 0.53in	13.5 / 0.53in	75 / 2.95in

Mounting Accessories

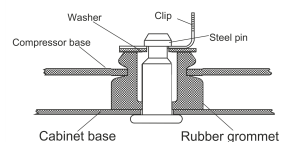


Dimensions in mm [in]

Bolt joint



Snap-on



	one comp.	multi pack
'4ZN' with rubber grommet	–	772N
'4ZN' with rubber grommet and sleeve for M6	–	768N
Bolt joint kit	–	4ZN + 118-1917 (18)
'4ZN' with Snap on kit	–	776N

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Configuration 1

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Configuration

Motor configuration	RSIR
Power supply (nominal)	220-240 V/50 Hz 1~
Refrigerant	R600a
Application	LBP
Voltage range	187-264 V
Starting torque	LST
Approvals	VDE
Starting device type	PTC
Run capacitor	-/-
Start capacitor	-/-
LRA (locked rotor amps / 4s/ U(N))	6.2 A
RLA (rated load amps / 1s/ U(N))	1.2 A
Cut in current (U(N))	12.9 A

Ambient/ machine room temperatures minimum /maximum

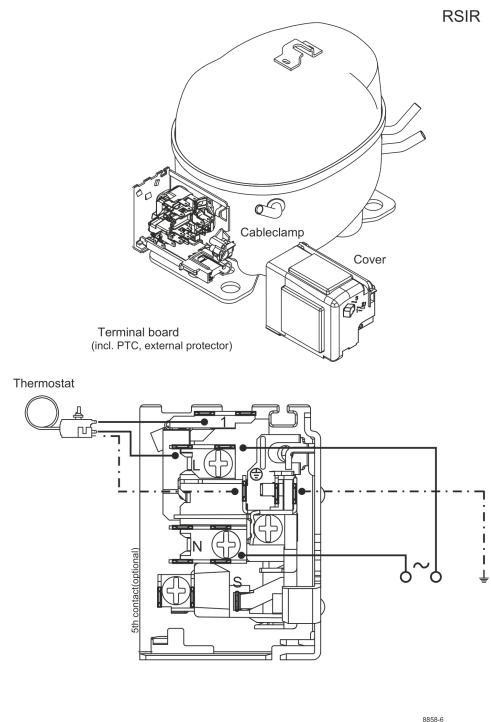
Ambient temperature range: 10 - 43°C / 50 - 109°F

Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling

static

Electrical Accessories / Wiring Diagram



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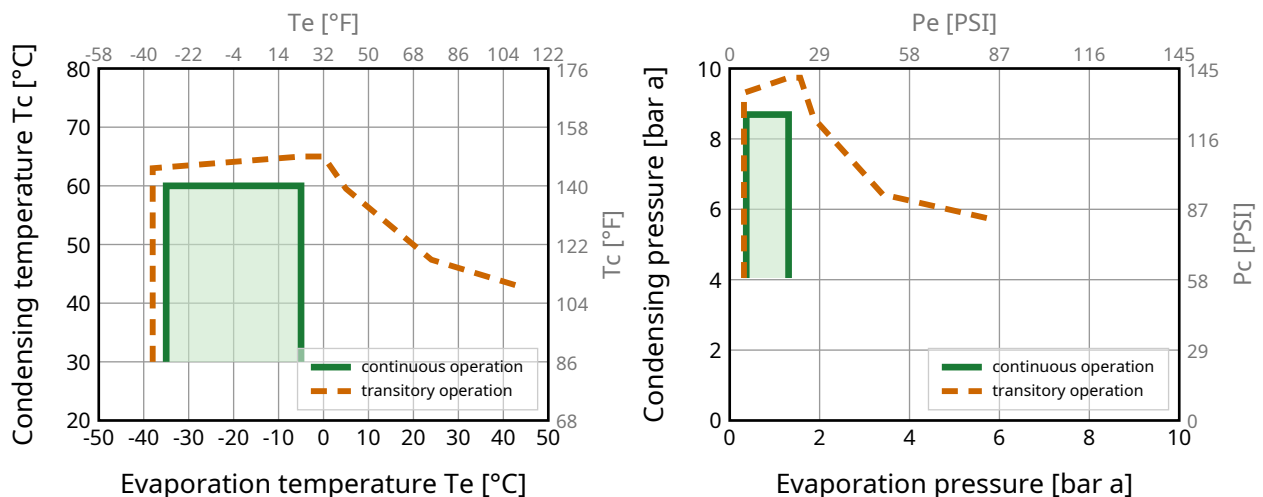
Components

- . terminal board (PTC,4.8mm,K100) ZA FP
- . motor protector BDG AE 72 FU x AE72FUX
- . cover + clamp + screws (Nr. 4ZN) 16168000
- . evaporation tray (optional) 113188_

Alternative components

- . terminal board (PTC,6.3mm,K100) DA FP
- . motor protector BDG AE 72 FU x AE72FUX
- . cable clamp 16058100
- . cover 157595_
- . evaporation tray (optional) 113188_

Operation Pressure Range



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Standard Conditions

R600a, 220 V/50 Hz, RSIR, static

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	m	
[°C] [°F]	[°C] [°F]	[°C] [°F]	[°C] [°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	198	675	170	1.53	5.22	129	0.87	2.13	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	149	508	128	1.20	4.10	124	0.84	1.94	CECOMAF LBP
-35 -31	40 104	20 68	40 104	94	320	81	1.08	3.67	87	0.72	1.14	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	161	550	139	1.28	4.38	126	0.86	2.35	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	212	723	182	1.75	5.98	121	0.84	2.28	AHAM LBP
-35 -31	45 113	32 89.6	45 113	92	313	79	1.04	3.54	88	0.71	1.09	opt LBP

Performance Tables

R600a, 220 V/50 Hz, RSIR, static

pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F

pe		Cooling capacity			COP	EER	P	I	m
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-35	-31	92	313	79	1.04	3.54	88	0.71	1.09
-30	-22	129	441	111	1.25	4.25	104	0.77	1.54
-25	-13	172	586	148	1.45	4.95	118	0.83	2.04
-20	-4	219	747	188	1.65	5.64	132	0.89	2.61
-15	5	270	923	233	1.85	6.33	146	0.96	3.23
-10	14	327	1115	281	2.06	7.03	158	1.03	3.91
-5	23	387	1322	333	2.27	7.74	171	1.10	4.65

pc= 55/131 | RGT= 32/89.6 | Tliq= 55/131 | °C/°F

-35	-31	82	278	70	0.90	3.06	91	0.69	1.06
-30	-22	112	384	97	1.05	3.58	107	0.77	1.46
-25	-13	149	508	128	1.20	4.10	124	0.84	1.94
-20	-4	191	652	164	1.35	4.62	141	0.93	2.49
-15	5	238	813	205	1.50	5.13	159	1.01	3.12
-10	14	291	993	250	1.65	5.63	176	1.10	3.82
-5	23	349	1191	300	1.79	6.11	195	1.19	4.59